

Mallard North Update – October 8, 2009 Meeting
Prepared by RMT, Inc.

EPA Region 5 Records Ctr.



361380

1. Completed Activities/Activities In-Progress

- Prepared landfill gas control system (LFGCS) air permit application. Also prepared letter explaining why permit is not required for this application. Both documents were submitted to IEPA BOA on September 29.
- Prepared "Landfill Gas Collection System Design Report". Document was then revised to include changes made subsequent to the September 28 meeting with IEPA and U.S. EPA. Changes included connecting DV-6 to south-central system and adding two new LFG extraction wells to the northwest system.
- Cover repair work status – west is 95 % complete, east is 90% complete. Performed full round of landfill gas and liquid level monitoring on September 29 and 30.
- Continued pumping liquid at EWL-2, MH-2 and the western trench sump.
- Continued operation of solar flares.
- Troubleshooting of blower for flare system at SV-12. Recharged battery several times. Discussing with manufacturer possible need to replace certain electrical components. Determined that the electrical connection between the solar panel and the blower panel was bad. A new connector has been ordered from the manufacturer. On Site (Manday)
Wind Sheds : Measure flow w/ expanded system
- Prepared color coded methane detection figure, as discussed at last meeting (see attached).
- MH-1 and MH-2 were sealed the week of September 19th and monitored for methane during the September 29-30 gas monitoring round, to determine if methane was present in the collection trench. No methane was detected in the collection trench.

2. Planned Activities

- Complete cover repair activities, including topsoil, seeding, and winterization of leachate collection system. Trench in series Vaults installed @ extraction points;
Heat traced Circulated in Piping
- Continued O&M on the leachate extraction system and solar flares, as necessary.
- Construction of LFGCS. USEPA Approved
- Develop groundwater monitoring plan per Long-Term Goal "D" and Remedial Objective "6".
- Perform groundwater monitoring RMT to Develop
Winterize Leachate Collection

LMT to Develop

Action Item - USEPA to provide comments to RMT by Friday (Oct 9th)

Gas Probe Monitoring
Mallard North Landfill, Hanover Park, Illinois

Monitored By: Roelke, Zimmerman
 Gas Meter: Landtec
 Date Calibrated: 9/29/2009

Pressure Device: Magnahelics
 Water Level Device: Slope Indicator
 Ground Conditions: Dry

Date: 9/29/09 - 9/30/09
 Weather: 60's; 9/29 cloudy, 9/30 clear
 Comments: 9/29: 29.96 rising
9/30: 30.12 steady

ID	Time	Depth to Water (ft bgs)	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Pressure (" H2O)	Notes/Conditions
GP 1	NR	20.31	0.0	0.2	19.3	80.5	0.0	
GP 33A	NR	15.93	0.0	0.1	19.5	80.4	0.0	
GP 33B	NR	15.01	0.0	0.1	19.6	80.3	0.0	
G 116	NR	13.50	75.3	24.7	0.0	0.0	0.0	
GP 2A	NR	16.91	31.9	12.0	9.1	47.0	0.0	
GP 2B	NR	12.25	0.0	0.1	19.3	80.6	0.0	
GP 34A	NR	16.98	0.1	0.8	19.0	80.1	0.0	
GP 34B	NR	16.53	0.0	0.4	19.4	80.2	0.0	
GP 3	NR	14.22	0.0	1.1	18.7	80.2	0.0	
GP 4A	NR	14.89	0.0	1.0	18.9	80.1	0.0	
GP 4B	NR	13.69	0.0	1.1	18.7	80.2	0.0	
GP 4C	NR	18.68	31.5	11.7	10.6	46.2	0.1	
GP 5	NR	17.61	0.0	0.2	19.2	80.6	0.0	
P 1A	NR	21.08	0.0	0.0	19.5	80.5	-12.0	
GP 6	NR	Dry @ 12.59	0.0	10.1	12.8	77.1	0.0	
GP 7A	NR	14.15	0.0	8.8	12.3	78.9	0.0	
GP 7B	NR	25.45	0.0	0.2	19.3	80.5	0.0	
GP 8A	NR	9.97	0.0	5.7	15.4	78.9	0.0	
GP 8B	NR	12.08	0.0	0.2	19.3	80.5	0.1	
P 3A	NR	22.44	0.0	0.0	19.4	80.6	0.0	

ID	Time	Depth to Water (ft bgs)	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Pressure (" H2O)	Notes/Conditions
GP 9A	NR	9.57	0.0	0.6	18.3	81.1	-4.0	
GP 9B	NR	23.02	0.0	0.1	19.3	80.6	0.0	
P 4C	NR	Dry @ 7.10	0.0	0.2	19.3	80.5	-0.2	
GP 10A	NR	Dry @ 9.13	0.0	5.9	16.7	77.4	0.0	
GP 10B	NR	14.05	0.0	0.2	19.3	80.5	0.0	
GP 10C	NR	15.52	0.0	0.3	19.3	80.4	0.1	
P 5A	NR	11.93	0.0	0.0	19.4	80.6	-0.2	
GP 11A	NR	10.18	0.0	2.1	18.4	79.5	0.0	
GP 11B	NR	11.58	0.0	0.2	19.3	80.5	0.0	
P 6C	NR	7.97	0.0	1.8	17.5	80.7	0.0	
GP 12	NR	6.48	0.0	0.1	19.3	80.6	0.2	
P 7A	NR	5.86	0.0	0.0	2.4	97.6	-0.2	
P 7B	NR	6.22	0.0	2.9	17.1	80.0	-0.2	
GP 13	NR	7.11	0.0	0.2	19.3	80.5	0.7	
GP 14	NR	6.70	0.0	0.1	19.3	80.6	0.0	
G 109	NR	NR	NR	NR	NR	NR	NR	Will be monitored early Oct.
GP 15A	NR	5.11	0.0	0.5	19.0	80.5	0.5	
GP 15B	NR	5.83	0.0	0.4	19.0	80.6	0.0	
GP 28A	NR	9.35	0.0	0.1	19.3	80.6	0.0	
GP 28B	NR	4.48	0.0	0.1	19.3	80.6	0.3	
GP 28C	NR	4.61	0.0	0.1	19.3	80.6	0.6	
GP 16A	NR	5.82	0.0	0.1	19.4	80.5	0.0	
GP 16B	NR	2.60	0.0	0.1	19.3	80.6	0.1	
GP 16C	NR	5.35	0.0	0.3	19.2	80.5	0.2	
GP 29A	NR	5.78	0.0	0.2	19.2	80.6	0.3	
GP 29B	NR	10.58	0.0	0.1	19.2	80.7	0.4	
G110	NR	NR	NR	NR	NR	NR	NR	Will be monitored early Oct.
GP 17	NR	3.67	0.0	0.1	19.3	80.6	0.0	
GP 18	NR	8.77	0.0	0.1	19.3	80.6	0.0	

ID	Time	Depth to Water (ft bgs)	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Pressure (" H2O)	Notes/Conditions
GP 19	NR	12.24	0.0	0.1	19.3	80.6	0.2	
GP 20	NR	9.46	0.0	0.1	19.2	80.7	0.0	
GP 21A	NR	8.90	0.0	0.2	19.1	80.7	0.0	
GP 21B	NR	11.72	0.0	0.5	18.9	80.6	0.0	
GP 22A	NR	10.66	0.0	8.0	13.3	78.7	0.0	
GP 22B	NR	21.14	0.0	0.2	19.3	80.5	0.1	
GP 30A	NR	7.05	0.0	0.5	19.0	80.5	0.0	
GP 30B	NR	7.82	7.0	1.5	17.5	74.0	0.5	
MW 204 East	NR	23.86	10.7	3.5	14.7	71.1	0.0	
MW 204 West	NR	27.29	0.0	0.2	19.4	80.4	0.0	
GP 23A	NR	8.49	0.0	0.2	19.0	80.8	0.0	
GP 23B	NR	12.44	0.0	0.2	19.0	80.8	-0.2	
GP 24A	NR	7.43	0.0	0.2	19.0	80.8	-1.3	
GP 24B	NR	19.16	0.0	0.2	19.2	80.6	0.0	
GP 25A	NR	9.11	0.0	2.1	18.3	79.6	0.0	
GP 25B	NR	23.64	0.0	0.2	19.3	80.5	0.0	
GP 31A	NR	Dry @ 9.52	0.0	2.4	18.0	79.6	0.0	
GP 31B	NR	19.07	68.8	6.0	3.1	22.1	0.1	
G 112R	NR	NR	NR	NR	NR	NR	NR	Will be monitored early Oct.
GP 26A	NR	12.46	0.3	0.2	18.7	80.8	-0.8	
GP 26B	NR	20.28	3.4	0.8	16.8	79.0	-2.5	
GP 27A	NR	11.86	0.0	6.0	14.9	79.1	0.0	
GP 27B	NR	24.62	0.0	0.6	18.6	80.8	0.0	
GP 35A	NR	Dry @ 11.34	0.0	3.1	17.4	79.5	0.0	
GP 35B	NR	17.26	0.0	0.2	19.1	80.7	0.0	
G 120S	NR	NR	NR	NR	NR	NR	NR	Will be monitored early Oct.
G 120D	NR	NR	NR	NR	NR	NR	NR	Will be monitored early Oct.
G 113	NR	NR	NR	NR	NR	NR	NR	Will be monitored early Oct.
G 121	NR	NR	NR	NR	NR	NR	NR	Will be monitored early Oct.

ID	Time	Depth to Water (ft bgs)	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Pressure (" H2O)	Notes/Conditions
GP 32A	NR	12.17	0.0	0.4	18.9	80.7	0.0	
GP 32B	NR	12.93	0.0	0.1	19.3	80.6	0.0	
GP 37A	NR	12.19	0.0	0.1	19.5	80.4	0.0	
GP 37B	NR	15.55	0.0	0.1	19.5	80.4	0.0	
G 115	NR	NR	NR	NR	NR	NR	NR	Will be monitored early Oct.
EWL 10	NR	NR	40.6	23.9	6.8	28.7	0.0	
EWL 11	NR	NR	59.2	29.8	0.0	11.0	-0.2	
UAV 1	NR	NR	70.3	29.7	0.0	0.0	-0.2	
DV 1	NR	NR	70.5	29.5	0.0	0.0	-0.1	
DV 8	NR	NR	69.7	30.3	0.0	0.0	-0.1	
UAV 4	NR	NR	64.0	38.2	0.0	0.0	0.0	
DV 12	NR	NR	68.1	32.5	0.4	0.0	0.0	
DV 13	NR	NR	15.8	6.4	14.9	62.9	-0.1	
SV 12	NR	NR	45.4	19.5	6.7	28.4	0.0	
DV 3	NR	NR	72.4	24.6	0.8	2.2	-0.2	
DV 6	NR	NR	NR	NR	NR	NR	NR	Sample port was missing
UAV 6	NR	NR	68.8	31.8	0.0	0.0	0.0	

NR = not recorded

Created by: B. Zimmerman, 10/1/09

Checked by: J. Schoephoester, 10/1/09

9/29/2009

	G115	MH2	EWL2
Totalizer	145210	66380	134780
Cycle Count	492611	39108	694983
DTW	7.88	2.33	12.84

9/30/2009

	G115	MH2	EWL2
Totalizer	145680	69010	136420
Cycle Count	494466	49539	701168
DTW	7.65	2.74	13.09

Well	DTW	Stickup
DV2	19.94	2.07
DSV1	11.88	5.65
SV2	Dry @ 8.00	6.30
UAV8	14.47	5.40

Well	Diameter
DV6	4"
EWL2	--
UAV2	--
DV13	4"
DV12	4"
DV3	4"
DV1	4"
UAV1	4"
EWL10	6"
EWL11	6"
EWL12	6"
UAV6	6"
DV8	4"
UAV4	6"



